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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/081,345	02/22/2002	Martin Karpf	· 20407 USI	2961		
151	7590 03/19/2003					
HOFFMANN-LA ROCHE INC. PATENT LAW DEPARTMENT 340 KINGSLAND STREET NUTLEY, NJ 07110		,	EXAM	EXAMINER		
			KHARE, I	DEVESH		
			ART UNIT	PAPER NUMBER		
			1623			
			DATE MAILED: 03/19/2003	DATE MAILED: 03/19/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

4)  Claim(s) 1-13 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11)  The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12)  The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b)  Some * c) None of:  1.  Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  a)  The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)  10  Notice of References Cited (PTO-892)		_								
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Deveah Khare    Deveah Chare		10/081,345		KARPF ET AL.						
- The MALLING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION.  Exhaesons of team ray be available under the provisions of 37 CER 1.13(g). In no event, however, may a reply be limely filed the provisions of 37 CER 1.13(g). In no event, however, may a reply be limely filed the period for reply with the patrol for reply with the stabletory entrol value of the provisions of the period for reply with the stabletory entrol value of a value of the stabletory entrol value of the stabletory entrol value of the stabletory entrol value of the communication of the period of the communication to become AlbaMONED (39 U.S.C. § 133).  Responsive to communication(s) filed on	Office Action Summary	Examiner		Art Unit						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Exercitation of time may be available under the provisions of 37 CFR 1.35(s), in no event, however, may a reply be timely filed  - Exercitation of time may be available under the provisions of 37 CFR 1.35(s), in no event, however, may a reply be timely filed  - Exercitation of times may be available under the provisions of 37 CFR 1.35(s), in no event, however, may a reply be timely filed  - Exercitation of times may be available under the provisions of 37 CFR 1.35(s), in no event, however, may a reply be timely filed  - If NO period for reply is apposited above, the maintain statutory period via apply and under on the statutory maintain of thing (50) days will be considered timely.  - If NO period for reply is apposited above, the maintain statutory period via apply and under the provision of the secondary developed and the secondary developed time application in the maintain statutory period via apply and under the maintain statutory period via and under the maintain statutory period via application is objected to by the Examiner.  - Claim(s)										
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE § MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Estimations of time may be available under the provisions of 3° CFR 1.35(e), in no event, however, may a reply be timely filed  Estimations of time may be available under the provisions of 3° CFR 1.35(e), in no event, however, may a reply be timely filed  If the period for reply appointed above is less than thirty (30) days, a reply white in the statutory priod will apply and will expire \$50, MONTHS from the mailing date of his communication or reply as public or re	· · · · · · · · · · · · · · · · · · ·									
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of tem may be available under the provisions of 3 CFR 1 15(6). In no evant, however, may a reply be timely filed after SIX (6) AGCNTS from the mailing date of this communication.  A GOVERN STATE OF THE COMMUNICATION.  If No period for reply is specified above, the maximus date of the communication of the provision of the provi										
1)  Responsive to communication(s) filed on  2a)  This action is FINAL. 2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s)  1-13 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) is/are objected to.  8)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on is/are: a) excepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11)  The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.  If approved, corrected drawings are required in reply to this Office action.  12)  The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. §§ 119 and 120  13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c)  None of:  1.  Certified copies of the priority documents have been received.  2.  Certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received.  14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 119(e) (to a provisional application).  a)  The translation of the foreign language provisional application has been received.  15)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.	THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	in no event, however within the statutory minim will apply and will expire SIX cause the application to b	er, may a reply be time num of thirty (30) days X (6) MONTHS from the ecome ABANDONED	ly filed will be considered timely e mailing date of this of (35 U.S.C. § 133).						
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## Minor objections

Claims 6,7 and 13 are objected to because of the following informalities:

Claims 6 and 7 are objected to for failing to end in a period.

Claim 13, line 3; misspell the word "methanesulfonate".

Appropriate correction is required.

## 35 U.S.C. 103(a) rejection

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

**Claims 1-13** are rejected under 35 U.S.C. 103(a) as being unpatentable over Kent et al. (U.S. Patent 6,204,398).

Claims 1 and 2 are drawn to a process for preparing a 2-aminoalcohol (III) by treating a 1,2-epoxide of formula (II) with an amine in the presence of a magnesium halide catalyst. Additional claim limitations include the amine of formula R<sup>5</sup> NHR<sup>6</sup> wherein the amine is allylamine, diallylamine, benzylamine, dibenzylamine or trimethylsilyl amine and the magnesium halide catalyst is magnesium bromide diethyl etherate.

Claims 3 and 4 are drawn to a cyclohexene carboxylate derivative of the formula (X) and pharmaceutically acceptable addition salts. Claim 4 limits claim 3 in that the compound is (3R,4S,5R)-5-amino-3-(1-ethyl-propoxy)-4-hydroxy-cyclhex-1-ene carboxylic acid ethylester.

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Claims 5-7 are drawn to a cyclohexene carboxylate derivative of the formula (XI) and pharmaceutically acceptable addition salts. Claims 6 and 7 limits claim 5 in that the R<sup>5</sup> NHR<sup>6</sup> substituent at position 5 is allylamino or formylamino.

Claims 8-10 are drawn to a cyclohexene carboxylate derivative of the formula (XII) and pharmaceutically acceptable addition salts. Claims 9 and 10 limits claim 8 in that the R<sup>5</sup> NHR<sup>6</sup> substituent at position 5 is allylamino and the R<sup>4</sup> R<sup>3</sup> N substituent at position 4 is acetylamino or amino.

Claims 11-13 are drawn to a cyclohexene carboxylate derivative of the formula (XIII) and pharmaceutically acceptable addition salts. Claims 12 and 13 limits claim 11 in that the R<sup>5</sup> NHR<sup>6</sup> substituent at position 5 is formylamino or amino and the R<sup>4</sup> R<sup>3</sup> N substituent at position 4 is methanesulfonyl. Additionally, the compound of claim 13 is an addition salt of methanesulfonate (1:1).

Kent et al. teach the synthetic methods and compositions of cyclohexene carboxylate derivatives (see formulas (I)-(IV)). Kent et al. disclose a process for preparation of a 2-aminoalcohol (col. 20, lines 45-67 and col. 21, lines 1-25) by treating a 1,2-epoxide of formula (40) with an amine (eg. benzylamine: amine reagent of formula HY <sup>1</sup>, where Y <sup>1</sup> is defined as substituted amino group, see col. 20 lines 61-65) in the presence of a base. Kent et al. does not suggest the use of magnesium halide catalyst in the reaction; however Kent et al. teach the use of a base with the amine reagent (col. 21, lines 21-22). Kent et al. disclose the preparation of 2-aminoalcohol enriched or resolved optical isomers at any or all asymmetric atoms (Col. 27, lines 60-65), however the Kent et al.

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patent is seen to render the instantly claimed process for preparing the non-chiral isomers of 2-aminoalcohol prima facie obvious.

Kent et al. disclose the cyclohexene carboxylate derivatives and their compositions (col. 1, lines 10-11), especially compound 50 (col. 21), compound 71 (col. 23), compound 11 (col. 2), which are closely analogous to the applicant's claimed compounds of claims 3-13; Kent et al's cyclohexene carboxylate compounds and compositions differ from applicant's cyclohexene carboxylate compounds and compositions in that the cyclohexene carboxylate derivatives, R<sup>11</sup> and R<sup>12</sup> are not defined as an alkyl group or substituted alkyl group.

Applicants claim, namely (3R,4S,5R)-5-amino-3-(1-ethyl-propoxy)-4-hydroxy-cyclhex-1-ene carboxylic acid ethylester(claim 4), the compounds where the R<sup>5</sup> NHR<sup>6</sup> substituent at position 5 is allylamino or formylamino (claims 6 and 7), the compounds where the R<sup>4</sup> R<sup>3</sup> N substituent at position 4 is acetylamino or amino (claims 9 and 10) and the R<sup>5</sup> NHR<sup>6</sup> substituent at position 5 is formylamino or amino and the R<sup>4</sup> R<sup>3</sup> N substituent at position 4 is methanesulfonyl (claims 12 and 13) and their compositions. Applicants use of "cyclohexene carboxylate" core structure in the claimed compounds is rendered obvious because Kent et al's disclose the compounds and compositions, which is seen to "comprise" the "cyclohexene carboxylate" core structure ( see col.21 (50), col.23(71) and col.2(11)). It would have been obvious to modify the compounds of formula (II) and (IV) in abstract, of the Kent et al. patent by substituting the Markush groups on the "cyclohexene carboxylate" core structure. Use of a known member of a class of materials in a process is not patentable if other members of the class were known to be

useful for that purpose, even though results are better than expected. Kent et al. provide motivation to use cyclohexene carboxylate derivatives as inhibitors of neuraminidase (col. 1, lines 35-44).

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Therefore, one of ordinary skill in the art would have found the applicants process for preparing a 2-aminoalcohol and the compounds and compositions of cyclohexene carboxylate derivatives, to have been obvious at the time the invention was made having the above reference before him because Kent et al. teach the a process for preparation of 2-aminoalcohol and the cyclohexene carboxylate derivatives and their compositions. A skilled artisan would be motivated to make routine modifications to produce the cyclohexene carboxylate derivatives for pharmaceutical delivery.

## State of the Art References

The following references further reflect the current state of the art:

Kent et al. (U.S. Pub. No. 2002/0058823) -discloses the preparation of cyclohexene carboxylate derivatives.

Kent et al. (U.S. Pub. No. 2002/0156300) -discloses the preparation of cyclohexene carboxylate derivatives.

Kent et al. (U.S. Patent 6,518,438) – discloses the preparation of cyclohexene carboxylate derivatives.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Devesh Khare whose telephone number is (703)605-1199. The examiner can normally be reached on Monday to Friday from 8:00 to 4:30. Application/Control Number: 10/081,345

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson, Supervisory Patent Examiner, Art Unit 1623 can be reached at 703-308-4624. The official fax phone numbers for the organization where this application or proceeding is assigned is (703) 308-4556 or 308-4242. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

Devesh Khare, Ph.D., JD(3Y).

Art Unit 1623 March 13,2003

SAMUEL BARTS
PRIMARY EXAMINER
GROUP 1200